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NOTICE OF ALLOWANCE AND FEE(S) DUE

74321 7590 6427/2009

LAHIVE & COCKFIELD, LLP/THE MATHWORKS
FLOOR 30, SUITE 3000
One Post Office Square

EXAMINER
THANGAVELU, KANDASAMY
ART UNIT PAPER NUMBER
2123
DATE MAILED: 04/27/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/637,206	08/07/2003	Donald P. Orofino II	MWS-029RCE	4080		
TITLE OF INVENTION: SYNCHRONIZATION AND DATA REVIEW SYSTEM						

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	07/27/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR INSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

Boston, MA 02109-2127

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and I/2 the ISSUE FIEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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INSTRUCTIONS: This appropriate. All further c indicated unless corrected maintenance fee notification	form should be used for correspondence including d below or directed oth ions.	or trans ig the F ierwise	smitting the ISSU atent, advance or in Block 1, by (a					
CURRENT CORRESPONDENCE ADDRESS (Noze: Use Block 1 for any change of address)				No Fe pa ha	Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.			
74321 7590 0427/2009 LAHIVE & COCKFIELD, LLP/THE MATHWORKS FLOOR 30, SUITE 3000 One Post Office Square					Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FIEE address above, or being facsimile transmitted to the USPTO (517) 273-2885, on the date indicated below the USPTO (517) 273-2885, on the date indicated below.			
Boston, MA 0210)9-2127							(Depositor's name)
								(Signature)
								(Date)
APPLICATION NO.	FILING DATE			FIRST NAMED INVENTO	R	ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/637,206	08/07/2003	•		Donald P. Orofino II	no II MWS-029RCE		4080	
TITLE OF INVENTION:	SYNCHRONIZATION							
APPLN. TYPE	SMALL ENTITY	ISS	UE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSU	E FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO		\$1510	\$300	\$0		\$1810	07/27/2009
EXAMI	NER		ART UNIT	CLASS-SUBCLASS	7			
THANGAVELU,	KANDASAMY		2123	703-006000	-			
"Fee Address" indic PTO/SB/47; Rev 03-02 Number is required. 3. ASSIGNEE NAME AN	endence address (or Cha 7/122) attached. cation (or "Fee Address 2 or more recent) attach ND RESIDENCE DATA ess an assignee is ident in 37 CFR 3.11. Comp	nge of C " Indica ed. Use	Correspondence tion form of a Customer E PRINTED ON		ively, gle firm (having as a agent) and the nam orneys or agents. If e printed. ype) patent. If an assign assignment.	n memb ies of u no nan	per a 2p to p to a is 3	cument has been filed for
Please check the appropria	ate assignee category or	catego	ies (will not be pr	inted on the patent):	Individual C	orporat	ion or other private gro	up entity Government
4a. The following fee(s) are submitted: Issue Fee Publication Fee (No small entity discount permitted) Advance Order - # of Copies			d)	o. Payment of Fee(s): (Plo A check is enclosed. Payment by credit co The Director is herel overpayment, to Dep	ard. Form PTO-2038 ov authorized to cha	is att	sched. required fee(s), any def	
	SMALL ENTITY state	is. See 3	37 CFR 1.27.	b. Applicant is no lo				
NOTE: The Issue Fee and interest as shown by the re	Publication Fee (if req ecords of the United Sta	uired) w tes Pate	rill not be accepted nt and Trademark	d from anyone other than Office.	the applicant; a reg	istered	attorney or agent; or th	e assignee or other party ir
Authorized Signature					Date			
Typed or printed name				Registration N				
This collection of informa an application. Confidenti submitting the completed this form and/or suggestic Box 1450, Alexandria, Vi Alexandria, Virginia 2231	tion is required by 37 C iality is governed by 35 application form to the ons for reducing this bur rginia 22313-1450. DC .3-1450.	FR 1.3 U.S.C. USPTo rden, sh O NOT S	11. The informatic 122 and 37 CFR D. Time will vary ould be sent to the SEND FEES OR	on is required to obtain or 1.14. This collection is e depending upon the ind e Chief Information Offi COMPLETED FORMS	retain a benefit by stimated to take 12 ividual case. Any co cer, U.S. Patent and TO THIS ADDRES:	the pub minute ommen Trader S. SEN	lic which is to file (and is to complete, including is on the amount of tin nark Office, U.S. Depa D TO: Commissioner f	by the USPTO to process g gathering, preparing, and the you require to complete rtment of Commerce, P.O. or Patents, P.O. Box 1450

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74321 75	590 04/27/2009		EXAM	IINER	
LAHIVE & COCKFIELD, LLP/THE MATHWORKS			THANGAVELU	, KANDASAMY	
FLOOR 30, SUITI		ART UNIT	PAPER NUMBER		
One Post Office Square			2123		
Boston, MA 02109-2127			DATE 344 F FID. 0407/2000		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 422 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 422 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)	
10/637,206	OROFINO, DONAL	D P.
Examiner	Art Unit	
KANDASAMY THANGAVELU	2123	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative

- of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.
- This communication is responsive to February 17, 2009.
- The allowed claim(s) is/are 1-17,19-34,36-51,53-70 and 72-74, 76-92.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) \square All b) ☐ Some* c) ☐ None of the:
 - 1. T Certified copies of the priority documents have been received.
 - 2. Certified copies of the priority documents have been received in Application No.
 - 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) hereto or 2) to Paper No./Mail Date
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6.

DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. Notice of References Cited (PTO-892)
- 2. Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3. Information Disclosure Statements (PTO/SB/08),
- Paper No./Mail Date 4. T Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date
- 7. X Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- 9. ☐ Other .

DETAILED ACTION

Introduction

This communication is in response to the Applicants' communication dated
 February 17, 2009. Claims 1, 2, 4-7, 13, 16-17, 19, 21-24, 30, 33-34, 36-37, 39-41, 47,
 50-51 53-54, 56, 59, 65, 68-69, 72-74, 76-77, 79-82, 87-88 and 91-92 were amended.
 Claims 1-17, 19-34, 36-51, 53-70 and 72-74, 76-92 of the application are pending.

Examiner's Amendment

 Authorization for this examiner's amendment was given in a telephone conversation by Mr. John Curran on April 22, 2009.

An Examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to the applicants, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

In the claims:

In claim 16, line 2, "at least one of MATLAB software, JAVA, C++"

has been changed to

-- at least one of C++ --.

In claim 23, lines 2-3, "each of the first set"

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has been changed to
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-- each of the data modules in the first set --.

In claim 33, line 2, "at least one of MATLAB software, JAVA, C++"

has been changed to

-- at least one of C++ --.

In claim 50, line 2, "at least one of MATLAB software, JAVA, C++"

has been changed to

-- at least one of C++ --.

In claim 68, line 2, "at least one of MATLAB software, JAVA, C++"

has been changed to

-- at least one of C++ --.

In claim 72, line 4, "a memory for storing"

has been changed to

-- a memory storing --.

In claim 72, line 8, "a processor for executing"

has been changed to

-- a processor executing --.

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In claim 73, line 4, "a memory for storing"
has been changed to
-- a memory storing --.
In claim 73, line 8, "a processor for executing"
has been changed to
-- a processor executing --.
In claim 74, line 4, "a memory for storing"
has been changed to
-- a memory storing --.
In claim 74, line 8, "a processor for executing"
has been changed to
-- a processor executing --.
In claim 91, line 2, "at least one of MATLAB software, JAVA, C++"
has been changed to
-- at least one of C++ --.
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Reasons for Allowance

Claims 1-17, 19-34, 36-51, 53-70 and 72-92 of the application are allowed over prior art
of record.

The following is an Examiner's statement of reasons for the indication of allowable subject matter:

The closest prior art of record shows:

- (1) in system simulators probes are used as software objects to collect data from simulated system components; a probe synchronization mechanism allow users to uniquely identify application level execution contexts of data samples gathered during a simulation of a system; a probe synchronization method and device are used to collect simulation data from various components during a period of interest; an event that occurs during the simulation may signal the beginning of the period and another event may signal the end of the period; an acquisition window having a starting point and an ending point coinciding with the occurrences of the events may be used by a probe master to cause one or more slave probes to collect data simultaneously during this period of interest; a unique identifier or tag of this period is generated by the probe master and sent to all slave probes; the tag is dumped in the simulation database; it allows post processing correlations between high level simulation events and low kevel model reactions (Billemaz et al., U.S. Patent Application 2004/0093197);
- (2) a distributed process control system with process modules to simulate the operation of system elements, and control modules to perform on-line control within a process and graphic displays to display information about the system elements; the various modules are

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communicatively connected together to provide combined control, simulation and display functions; the data is shared between the process modules and the graphic displays; functional blocks within the control modules are executed within the process plant; control modules use the simulation data developed by the process modules to perform better control and process modules perform better simulation using the actual plant data from the control modules; the graphic displays are used to illustrate actual process data and the simulation process data developed by the control modules and the process modules; the controller implements a control strategy using a number of different, independently executed control modules or blocks; each functional block operates in conjunction with other functional blocks via communication to implement process control loops; values and parameters displayed on the graphic display may be delivered from simulation elements which implement simulation of the processes; the process modules communicate with the control modules to provide data to the control modules and access data from the control modules (Blevins et al., U.S. Patent Application 2004/0153804); and

(3) a control system for controlling a plant such as an electric power system or an industrial plant in accordance with state quantities input from a plurality of equipments of the plant which include a state quantity input device; for controlling state quantities such as electric quantities which change with time, a control system having digital control apparatuses is used; the digital control apparatus recognizes a change in state of the equipment devices and abnormal states and stabilizing controls and protective controls are performed; data and procedures are transmitted via a communication network between the control devices; the equipment acquire or collect electric quantity data at predetermined periods and communicate to the control devices; the control devices use the collected data to produce control commands; the transmitting means

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add the time at which sampling was done and transmit the data with the sampling time; the control system is provided with a simulation unit for generating an analog data applied for a test; the electric quantity data acquired by the control apparatuses are synchronized, being collected at the same time; the control scheme can be performed on the basis of synchronized electric quantity data; (Shirota al., U.S. Patent 6,618,648).

Additional state of the art reviewed and considered by the Examiner is found in Radhakrishnan et al., "External adjustment of runtime parameters in time warp synchronized parallel simulators", IEEE 1997; Ostroff, J., "Composition and refinement of discrete real time systems", ACM 1999; and Dey et al., "Performance analysis of a system of communicating processes", IEEE, 1997.

None of these references taken either alone or in combination with the prior art of record discloses In a simulation environment, a computer-implemented method for controlling collection of data generated by a dynamic system model, specifically including:

(Claim 1) "providing a controller system separate from the dynamic system model on the computer system, the controller system including:

at least two free-running data modules, the free-running data modules communicatively coupled to collect data from the dynamic system model,

one or more functions, the one or more functions executed by at least two of the freerunning data modules, and

at least one controller controlling two or more of the free-running data modules; and

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controlling two or more of the free-running data modules to simultaneously execute at least one of the functions to achieve synchronization of at least one of collection or analysis of the generated data at a point in time, the controlling performed using the at least one controller" in combination with the remaining elements and features of the claimed invention.

None of these references taken either alone or in combination with the prior art of record discloses in a simulation environment, a computer-implemented method for controlling collection of data generated by a dynamic system model, specifically including:

(Claim 19) "providing a controller system separate from the dynamic system model on the computer system, the controller system including:

at least two data modules, the data modules communicatively coupled to collect data from the dynamic system model, each of the at least two data modules operating in one of a freerunning mode or a triggered mode, wherein a data module operating in triggered mode starts data
collection when a trigger event occurs and stops data collection when a stop event occurs, the
trigger event being external to the data module, the stop event being internal to the data module,

a snapshot function executed by at least two of the data modules that include a display of the data collected by that data module, the snapshot function freezing the display of the data collected: and

controlling a first set of two or more of the data modules to simultaneously execute the snapshot function to synchronously freeze the displays of the data collected by the controlled data modules, the freezing occurring while the dynamic system model continues to execute and the generated data continues to be collected by the controlled data modules, the controlling

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performed using the at least one controller between the starting and the stopping of the first set" in combination with the remaining elements and features of the claimed invention.

None of these references taken either alone or in combination with the prior art of record discloses in a simulation environment, a computer-implemented method for controlling collection of data generated by a dynamic system model, specifically including:

(Claim 36) "providing a controller system separate from the dynamic system model on the computer system, the controller system including:

at least two free-running data modules, the free-running data modules communicatively coupled to collect data from the dynamic system model,

a suspend function executed by at least two of the free-running data modules; and controlling, a first set of two or more of the at least two free-running data modules to simultaneously execute the suspend function to synchronously pause collection of the generated data by the controlled free-running data modules while the dynamic system model continues to operate, the controlling performed using the at least one controller" in combination with the remaining elements and features of the claimed invention.

None of these references taken either alone or in combination with the prior art of record discloses a computer-implemented method for controlling collection of data generated by a dynamic system, specifically including:

(Claim 53) "providing a controller system separate from the dynamic system on a computer system, the controller system including:

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at least two data modules, the data modules communicatively coupled to collect data from the dynamic system, each of the at least two data modules operating in one of a freerunning mode or a triggered mode, wherein a data module operating in triggered mode starts data
collection when a trigger event occurs and stops data collection when a stop event occurs, the
trigger event being external to the data module, the stop event being internal to the data module,
and

controlling two or more of the data modules to simultaneously execute at least one of the functions to achieve synchronization of at least one of collection or analysis of the generated data at a point in time, the controlling performed using the at least one controller between the starting and the stopping of the controlled data modules" in combination with the remaining elements and features of the claimed invention.

None of these references taken either alone or in combination with the prior art of record discloses in a simulation environment, a system for controlling collection of data generated by a dynamic system model, specifically including:

(Claim 72) "instructions for a controller system separate from the dynamic system model, the controller system including:

at least two free-running data modules, the free-running data modules communicatively coupled to collect data from the dynamic system model,

one or more functions, the one or more functions executed by at least two of the freerunning data modules, and

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at least one controller to control two or more of the free-running data modules to simultaneously execute at least one of the functions to achieve synchronization of at least one of collection or analysis of the generated data at a point in time" in combination with the remaining elements and features of the claimed invention.

None of these references taken either alone or in combination with the prior art of record discloses in a simulation environment, a system for controlling collection of data generated by a dynamic system model, specifically including:

(Claim 73) "instructions for a controller system separate from the dynamic system model, the controller system including:

at least two free-running data modules, the free-running data modules communicatively coupled to collect data from the dynamic system model,

a snapshot function executed by at least two of the free-running data modules that include a display of the data collected by that free-running data module, the snapshot function freezing the display of the data collected, and

at least one controller to control two or more of the free-running data modules to simultaneously execute the snapshot function to synchronously freeze the displays of the data collected by the controlled data modules, the freezing occurring while the dynamic system model continues to execute and the generated data continues to be collected by the controlled data modules" in combination with the remaining elements and features of the claimed invention.

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None of these references taken either alone or in combination with the prior art of record discloses in a simulation environment, a system for controlling collection of data generated by a dynamic system model, specifically including:

(Claim 74) "instructions for a controller system separate from the dynamic system model, the controller system including:

at least two data modules, the data modules communicatively coupled to collect data from the dynamic system model, each of the at least two data modules operating in one of a freerunning mode or a triggered mode, wherein a data module operating in triggered mode starts data
collection when a trigger event occurs and stops data collection when a stop event occurs, the
trigger event being external to the data module, the stop event being internal to the data module,

a suspend function executed by at least two of the data modules, and

at least one controller to control two or more of the data modules to simultaneously execute the suspend function to synchronously pause collection of the generated data by the controlled data modules while the dynamic system model continues to operate, the controlling performed between the starting and the stopping of the controlled data modules" in combination with the remaining elements and features of the claimed invention.

None of these references taken either alone or in combination with the prior art of record discloses a computer-readable storage medium storing computer-executable instructions controlling collection of data generated by a dynamic system model when executed by a processor, specifically including:

(Claim 76) "providing a controller system separate from the dynamic system model, the controller system including:

at least two free-running data modules, the free-running data modules communicatively coupled to collect data from the dynamic system model.

one or more functions, the one or more functions executed by at least two of the freerunning data modules, and

at least one controller controlling two or more of the free-running data modules; and controlling two or more of the free-running data modules to simultaneously execute at least one of the functions to achieve synchronization of at least one of collection or analysis of the generated data at a point in time, the controlling performed using the at least one controller" in combination with the remaining elements and features of the claimed invention.

- 6. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."
- Any inquiry concerning this communication or earlier communications from the
 examiner should be directed to Dr. Kandasamy Thangavelu whose telephone number is
 571-272-3717. The examiner can normally be reached on Monday through Friday from
 8:00 AM to 5:30 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Paul Rodriguez, can be reached on 571-272-3753. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to TC 2100 Group receptionist: 571-272-2100.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

K. Thangavelu Art Unit 2123 April 22, 2009

April 22, 2009

/Paul L Rodriguez/ Supervisory Patent Examiner, Art Unit 2123